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## NOTES AND NEWS.

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Dr. Gilbert A. Bliss, of Princeton University, will offer courses at the University of Chicago during the next Summer quarter.

Dr. Joseph V. Collins's *Elementary Practical Algebra*, published by the American Book Company, is now going through the press.

Professor E. H. Moore is spending the year in Europe. He presented a paper at the International Congress of Mathematicians held in Rome, Italy, early in April.

Professor H. S. White, of Vassar College, will give the courses, at the University of Chicago in the next Summer quarter, which were to have been given by Professor Maschke.

The Chicago Section of the American Mathematical Society held its Spring meeting at the University of Chicago on April 17 and 18. There were twenty-three papers presented, among which were several to be offered for publication in the MONTHLY.

At the University of Chicago, Assistant Professors Kent Loves and Frank R. Moulton, of the Department of Mathematical Astronomy, and Herbert E. Slaught and J. W. A. Young, of the Department of Mathematics, have been promoted to Associate Professorships.

In the Summer School of the University of Pennsylvania, the following courses in Advanced Mathematics will be offered: Definite Integrals, by Professor Schwatt; Differential Equations, by Professor Safford; Theory of Functions of a Complex Variable, by Professor Hallett.

At the next meeting of the National Educational Association in Cleveland next July, the Mathematical Section will be in charge of Professor H. E. Slaught, of the University of Chicago. The speakers will be Professor T. E. McKinney, of Wesleyan University, Middletown, Conn.; Mr. William Betz, of the East High School, Rochester, N. Y.; Professor John C. Stone, Michigan State Normal College, Ypsilanti, Mich.; and Mr. Richard S. Beardsley, of the Englewood High School, Chicago.

The following courses are announced for the Summer quarter at the University of Chicago, each extending through the entire quarter and meeting either four or five hours per week: By Professor H. S. White, Higher Plane Curves, and Elliptic Functions. By Professor H. E. Slaught, Advanced Integral Calculus, and Analytical Geometry. By Professor J. W. A. Young, Differential Calculus, and Pedagogy of Secondary Mathematics. By Professor L. E. Dickson, Theory of Equations, and Plane Trigonometry. By Professor G. A. Bliss, Differential Equations from the Standpoint of Continuous Groups, and Integral Calculus. By Dr. A. C. Lunn, Analytic

Mechanics, and College Algebra. By Professor G. W. Myers, in the College of Education, Pedagogy of Secondary Mathematics, and Pedagogy of Elementary School Mathematics.

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## BOOKS.

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*The Theory of Functions of a Real Variable and the Theory of Fourier's Series.* By W. E. Hobson, Sc. D., F. R. S., Fellow of Christ's College and Stokes Lecturer in Mathematics in the University of Cambridge. Royal 8vo. Cloth, xvi + 772 pages. Price, \$6.50. Published in America by G. P. Putnam's Sons, New York City.

This work presents in a connected form, and renders more easily accessible than hitherto, the chief results of the investigations, in the Theory of Functions of a Real Variable, made by Cantor, Dedekind, Weierstrasse, and others. Gaps in the various theories have been filled up, proofs of many of the theorems have been simplified, and some theorems have been given in a more general form than that in which they were originally discovered.

The table of contents will give some idea of the extensive treatment of some of the most interesting developments in modern mathematics. Thus, Chapter I contains a discussion of Number, and includes a full account of the theories of Real Number, due to Cantor and Dedekind; Chapter II contains an exposition of the theory of sets of points, and includes an account of transfinite cardinal and ordinal Arithmetic; Chapter III deals pretty fully with the general theory of aggregates; Chapter IV discusses the main properties of functions in relation to continuity, discontinuity, etc., including investigations of the properties of important classes of functions; Chapter V is devoted to a discussion of the Foundations of the Integral Calculus, as based upon Riemann's definition of a definite integral, and its extension. Also in this chapter is given an account of the development of the Integral Calculus from the view point of Lebesgue's new definition of the definite integral; Chapter VI is concerned with functions defined as the limits of sequences of functions, and contains an account of the principal properties of functions represented by series, and a discussion of important matters connected with the modes of convergence of series through whole intervals, or in the neighborhood of particular points. An account of the very general results recently obtained by Baire, relating to the representability of functions by means of series, will be found in this Chapter. Chapter VII is devoted to the theory of Fourier's Series.

The work constitutes the most thorough, comprehensive, and satisfactory treatment of the Theory of Functions of Real Variables that has thus far appeared in the English language. B. F. F.

*High School Algebra.*—Advanced Course. By H. E. Slaught, Ph. D., Associate Professor of Mathematics in the University of Chicago, and N. J. Lennes, Ph. D., Instructor in Mathematics in the Massachusetts Institute of Technology. 12mo. Cloth, vii + 194 pages. Price, 75 cents. Chicago: Allyn & Bacon.

It is believed that this text book of Algebra, which includes a review of the authors' Elementary Course, contains all the algebra required by most technical and scientific schools. The material of this course is well selected and skillfully arranged. The graph is used, but not to excess. Some books are making too much of the graph, the danger being that students using a text in which over-emphasis is laid on graphics are likely to go off with the authors on the tangent to the graph. B. F. F.